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APPLICATIO	N NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/864,3	09	05/25/2001	Shigeyuki Uzawa	862.C2239	2803	
5514	7590	01/20/2006		EXAM	EXAMINER	
		CELLA HARPER	JARRETT, RYAN A			
30 ROCKEFELLER PLAZA NEW YORK, NY 10112				ART UNIT	PAPER NUMBER	
NEW	roide, ivi	10112		2125		

DATE MAILED: 01/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/864,309	UZAWA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Ryan A. Jarrett	2125			
Period fo	The MAILING DATE of this communicati or Reply	on appears on the cover	sheet with the correspondence a	address		
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR DEVER IS LONGER, FROM THE MAILI asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CC CFR 1.136(a). In no event, howe tion. period will apply and will expire y statute, cause the application to	DMMUNICATION. ever, may a reply be timely filed SIX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).	· , .		
Status						
2a) <u></u>	Responsive to communication(s) filed or This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice u	This action is non-final through the section is non-final throad through the section is not the section in the section is not the section in the section is not the section is not the section in the section is not the secti	mal matters, prosecution as to the	ne merits is		
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 48-58 and 60-62 is/are pending 4a) Of the above claim(s) is/are well claim(s) is/are allowed. Claim(s) 48-58 and 60-62 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to by	and/or election required aminer. accepted or b) object to the drawing(s) be held correction is required if the	ment. ected to by the Examiner. in abeyance. See 37 CFR 1.85(a). e drawing(s) is objected to. See 37 C	· / · ·		
Priority u	inder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO/ r No(s)/Mail Date	48) SB/08) 5) <u> </u>	Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application (PT Other:	ГО-152)		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/30/05 has been entered.

Response to Arguments

2. Some of Applicant's arguments, see pp. 6-9, filed 12/30/05, with respect to the rejection(s) of claim(s) 48 under Hasegawa et al. US 5,746,562 have been fully considered and are persuasive. Although Hasegawa et al. does disclose a port having a load-lock mechanism including a pump configured to create a vacuum below atmospheric pressure in the port and a supply mechanism configured to supply the inert gas into the port, Hasegawa et al. does not appear to disclose a conditioner configured to circulate a gas through the chamber and to purge an atmosphere in the chamber with an inert gas. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Tokuda et al. US 2003/0038929.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 48, 54, 58, and 60-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Tokuda et al. US 2003/0038929. For example, Tokuda et al. discloses
- 48. An exposure apparatus for exposing a wafer to an exposure light via a pattern of a reticle, said apparatus comprising:
 - a chamber in which the exposure light passes (e.g., Fig. 1, [0031]: "casing 15");
- a conditioner (e.g., [0083]-[0084]: "air conditioning system") configured to circulate a gas through said chamber and to purge (e.g., [0035]: "removing or deactivating impurities") an atmosphere in said chamber with an inert gas (e.g., [0067]: "supplying nitrogen gas to inside of the lens barrel 15", [0068]: "nitrogen gas is adopted for purging"); and
- a port (e.g., [0087]: "connection section 53") through which the wafer is transferred between said chamber and another apparatus outside of said exposure apparatus, said port having a load-lock mechanism including a pump (e.g., [0087]: "negative suction pressure of a clean room exhausting apparatus") configured to create a vacuum below atmospheric pressure in said port and a supply mechanism (e.g., [0030]: "a gas supplying device (10) for supplying a predetermined gas to inside the connection unit) configured to supply the inert gas into said port.
- 54. An apparatus according to claim 48, wherein the other apparatus includes a coating/developing system (e.g., [0021]).

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58. An apparatus according to claim 48, wherein said chamber comprises a temperature control mechanism for controlling a temperature of the wafer (e.g., [0083]: "temperature control system for compensating for operational accuracy of the exposure apparatus").

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 49-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tokuda et al. as applied to claim 48 above, and further in view of Hasegawa et al. US 5,746,562. Tokuda et al. does not appear to explicitly disclose the features recited in claims 49-53. However, Hasegawa et al. discloses an exposure apparatus including a plurality of ports (e.g., Fig. 3 #102a, #102b); wherein said plurality of ports comprise a first port configured to load the wafer (e.g., Fig. 3 #102a) and a second port configured to unload the wafer (e.g., Fig. 3 #102b); further comprising an interface section (e.g., Fig. 3 #121) for stocking a wafer between said port and another apparatus (e.g., Fig. 3 #131, #132); wherein said interface section includes a load-lock mechanism (e.g., Fig. 3 #122a, #122b); wherein said interface section is shared by a plurality of said ports (e.g., Fig. 3 #121, #102a, #102b).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tokuda et al. with Hasegawa et al. in order to provide a

separate path for incoming and outgoing wafers in the process chamber, as taught by Hasegawa et al., so as to reduce congestion and increase throughput.

7. Claims 55-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tokuda et al. as applied to claim 48 above, and further in view of Ueda et al. U.S. Patent No. 6,319,322. Tokuda et al. does not explicitly disclose that the port section includes a temperature control mechanism comprising at least one of a heater and a cooler.

However, such devices are well known in the art. For example, Ueda et al. discloses a substrate processing apparatus comprising an aligner process chamber that includes a temperature control mechanism (e.g., col. 1 lines 50-53); and further comprising a port section that includes a temperature control mechanism that includes at least one of a heater and a cooler (e.g., col. 1 lines 61-64, col. 8 lines 28-37). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the instant application to modify Tokuda et al. with Ueda et al. since Ueda et al. teaches that a temperature regulating means for regulating the temperature of a substrate held by a port section in accordance with the temperature regulation in an aligner is advantageous so that the substrate can be delivered to the aligner in a state where the temperature of the substrate is regulated closer to the temperature required in the aligner. Accordingly, the temperature of the substrate can be more accurately regulated in the aligner in a shorter time, so that circuit patterns can be accurately

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transferred, and throughput can be improved by speeding up the processing (e.g., col. 1

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line 65 – col. 2 line 8).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ryan A. Jarrett whose telephone number is (571) 272-

3742. The examiner can normally be reached on 10:00-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Leo Picard can be reached on (571) 272-3749. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

L-P. Pil

Ryan A. Jarrett Examiner

Examine

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1/17/06 RAJ

LEO PICARD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100